



#6

SEQUENCE LISTING

<110> LOUIBELL, Martin
TAYLOR, Steven
GRABOWSKA, Urszula
NILSSON, Magnus
MORISSON, Veronique

<120> Cysteine Protease Inhibitors

<130> 1718-0195P

<140> US 10/015,186

<141> 2001-11-16

<150> US 60/252,840

<151> 2000-11-17

<150> PCT/GB00/01894

<151> 2000-05-18

<150> GB 9911417.5

<151> 1999-05-18

<160> 4

<170> PatentIn version 3.0

<210> 1

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for cDNA of cysteinyl proteinase (Falcipain 2)

<400> 1

cgcgatccg ccaccatgga attaaacaga ttgcccgat

39

<210> 2

<211> 57

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer for cDNA of cysteinyl proteinase (Falcipain 2)

<400> 2

cgcgatcgact taatgatgat gatgatgatg ttcaattaat ggaatgaatg catcagt

57

<210> 3

<211> 886

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR product from amplification using primers for the cDNA
sequence of cysteinyl proteinase (Falcipain 2)

<220>

<221> CDS

<222> (3)..(848)

<400> 3

cc atg gaa tta aac aga ttt gcc gat tta act tat cat gaa ttt aaa 47
Met Glu Leu Asn Arg Phe Ala Asp Leu Thr Tyr His Glu Phe Lys
1 5 10 15

aac aaa tat ctt agt tta aga tct tca aaa cca tta aag aat tct aaa 95
Asn Lys Tyr Leu Ser Leu Arg Ser Ser Lys Pro Leu Lys Asn Ser Lys
20 25 30

tat tta tta gat caa atg aat tat gaa gaa gtt ata aaa aaa tat aga 143
Tyr Leu Leu Asp Gln Met Asn Tyr Glu Glu Val Ile Lys Lys Tyr Arg
35 40 45

gga gaa gaa aat ttc gat cat gca gct tac gac tgg aga tta cac agt 191
Gly Glu Glu Asn Phe Asp His Ala Ala Tyr Asp Trp Arg Leu His Ser
50 55 60

ggt gta aca cct gta aag gat caa aaa aat tgt gga tct tgc tgg gcc 239
Gly Val Thr Pro Val Lys Asp Gln Lys Asn Cys Gly Ser Cys Trp Ala
65 70 75

ttt agt agt ata ggt tcc gta gaa tca caa tat gct atc aga aaa aat 287
Phe Ser Ser Ile Gly Ser Val Glu Ser Gln Tyr Ala Ile Arg Lys Asn
80 85 90 95

aaa tta ata acc tta agt gaa caa gaa tta gta gat tgt tca ttt aaa 335
Lys Leu Ile Thr Leu Ser Glu Gln Glu Leu Val Asp Cys Ser Phe Lys
100 105 110

aat tat ggt tgt aat gga ggt ctc att aat aat gcc ttt gag gat atg 383
Asn Tyr Gly Cys Asn Gly Gly Leu Ile Asn Asn Ala Phe Glu Asp Met
115 120 125

att gaa ctt gga ggt ata tgt cca gat ggt gat tat cca tat gtg agt 431
Ile Glu Leu Gly Gly Ile Cys Pro Asp Gly Asp Tyr Pro Tyr Val Ser
130 135 140

gat gct cca aat tta tgt aac ata gat aga tgt act gaa aaa tat gga 479
Asp Ala Pro Asn Leu Cys Asn Ile Asp Arg Cys Thr Glu Lys Tyr Gly
145 150 155

atc aaa aat tat tta tcc gta cca gat aat aaa tta aaa gaa gca ctt 527
Ile Lys Asn Tyr Leu Ser Val Pro Asp Asn Lys Leu Lys Glu Ala Leu
160 165 170 175

aga ttc ttg gga cct att agt att agt gta gcc gta tca gat gat ttt 575
Arg Phe Leu Gly Pro Ile Ser Ile Ser Val Ala Val Ser Asp Asp Phe
180 185 190

| | |
|-----------------------------------------------------------------|-----|
| gct ttt tac aaa gaa ggt att ttc gat gga gaa tgt ggt gat gaa tta | 623 |
| Ala Phe Tyr Lys Glu Gly Ile Phe Asp Gly Glu Cys Gly Asp Glu Leu | |
| 195 200 205 | |

| | |
|-----------------------------------------------------------------|-----|
| aat cat gcc gtt atg ctt gta ggt ttt ggt atg aaa gaa att gtt aat | 671 |
| Asn His Ala Val Met Leu Val Gly Phe Gly Met Lys Glu Ile Val Asn | |
| 210 215 220 | |

| | |
|-----------------------------------------------------------------|-----|
| cca tta acc aag aaa gga gaa aaa cat tat tat tat ata att aag aac | 719 |
| Pro Leu Thr Lys Lys Gly Glu Lys His Tyr Tyr Tyr Ile Ile Lys Asn | |
| 225 230 235 | |

| | |
|-----------------------------------------------------------------|-----|
| tca tgg gga caa caa tgg gga gaa aga ggt ttc ata aat att gaa aca | 767 |
| Ser Trp Gly Gln Gln Trp Gly Glu Arg Gly Phe Ile Asn Ile Glu Thr | |
| 240 245 250 255 | |

| | |
|-----------------------------------------------------------------|-----|
| gat gaa tca gga tta atg aga aaa tgt gga tta ggt act gat gca ttc | 815 |
| Asp Glu Ser Gly Leu Met Arg Lys Cys Gly Leu Gly Thr Asp Ala Phe | |
| 260 265 270 | |

| | |
|-------------------------------------------------------------------|-----|
| att cca tta att gaa cat cat cat cat cat cat taagtcgacg cgatcgaatt | 868 |
| Ile Pro Leu Ile Glu His His His His His His | |
| 275 280 | |

| | |
|---------------------|-----|
| cctgcagccc ggggatcc | 886 |
|---------------------|-----|

<210> 4
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> PCR product from amplification using primers for the cDNA
 sequence of cysteinyl proteinase (Falcipain 2)

<400> 4

| |
|-----------------------------------------------------------------|
| Met Glu Leu Asn Arg Phe Ala Asp Leu Thr Tyr His Glu Phe Lys Asn |
| 1 5 10 15 |

| |
|-----------------------------------------------------------------|
| Lys Tyr Leu Ser Leu Arg Ser Ser Lys Pro Leu Lys Asn Ser Lys Tyr |
| 20 25 30 |

| |
|-----------------------------------------------------------------|
| Leu Leu Asp Gln Met Asn Tyr Glu Glu Val Ile Lys Lys Tyr Arg Gly |
| 35 40 45 |

| |
|-----------------------------------------------------------------|
| Glu Glu Asn Phe Asp His Ala Ala Tyr Asp Trp Arg Leu His Ser Gly |
| 50 55 60 |

| |
|-----------------------------------------------------------------|
| Val Thr Pro Val Lys Asp Gln Lys Asn Cys Gly Ser Cys Trp Ala Phe |
| 65 70 75 80 |

Ser Ser Ile Gly Ser Val Glu Ser Gln Tyr Ala Ile Arg Lys Asn Lys
85 90 95

Leu Ile Thr Leu Ser Glu Gln Glu Leu Val Asp Cys Ser Phe Lys Asn
100 105 110

Tyr Gly Cys Asn Gly Gly Leu Ile Asn Asn Ala Phe Glu Asp Met Ile
115 120 125

Glu Leu Gly Gly Ile Cys Pro Asp Gly Asp Tyr Pro Tyr Val Ser Asp
130 135 140

Ala Pro Asn Leu Cys Asn Ile Asp Arg Cys Thr Glu Lys Tyr Gly Ile
145 150 155 160

Lys Asn Tyr Leu Ser Val Pro Asp Asn Lys Leu Lys Glu Ala Leu Arg
165 170 175

Phe Leu Gly Pro Ile Ser Ile Ser Val Ala Val Ser Asp Asp Phe Ala
180 185 190

Phe Tyr Lys Glu Gly Ile Phe Asp Gly Glu Cys Gly Asp Glu Leu Asn
195 200 205

His Ala Val Met Leu Val Gly Phe Gly Met Lys Glu Ile Val Asn Pro
210 215 220

Leu Thr Lys Lys Gly Glu Lys His Tyr Tyr Tyr Ile Ile Lys Asn Ser
225 230 235 240

Trp Gly Gln Gln Trp Gly Glu Arg Gly Phe Ile Asn Ile Glu Thr Asp
245 250 255

Glu Ser Gly Leu Met Arg Lys Cys Gly Leu Gly Thr Asp Ala Phe Ile
260 265 270

Pro Leu Ile Glu His His His His His His
275 280